

## Case Study

### Sedgwick County Wichita, Kansas



#### PROJECT HIGHLIGHTS

##### Environmental Benefits

287 tons of harmful greenhouse gas emissions reduced annually

##### Equivalent to:

- Preserving 2.2 acres of forest from deforestation\* or
- Conserving 668 barrels of oil\*

##### Capital Costs

\$1,337,730

##### Annual Savings

Energy:	\$213,813
Non-Energy:	\$9,083
Utility Cost Reduction:	10%

##### \* Sources:

- Leonardo Academy's Cleaner & Greener<sup>SM</sup> Emissions Reduction Calculator  
<http://www.cleanerandgreener.org/resources/emissions-reductions-calculator.html>
- U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator  
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

#### PROJECT DESCRIPTION:

##### Energy Savings Performance Contract

**Challenge:** Sedgwick County wanted to demonstrate to its constituents that the county was actively working to become more environmentally conscious and "green." To support these efforts, the county successfully obtained an Energy Efficiency and Conservation Block Grant (EECBG). They used a portion of the grant to fund the purchase of electric vehicles. The county wanted to use the remaining EECBG funds in an energy savings performance contract project to implement other energy conservation measures in multiple county facilities.

#### PROJECT SCOPE

**Solution:** ConEdison Solutions audited a total of 74 buildings and more than 2,000,000 square feet of facility space. The final ESPC project involved the installation of energy conservation measures such as lighting retrofits, water conservation, programmable thermostats, vending machine controls, an ozone laundry system, and building retro-commissioning in 58 facilities. It is expected that the improvements in this \$1.3 million project will save the county more than \$220,000 per year, which equates to a simple payback of only six years. This project clearly demonstrated to the taxpayers that the county officials were good stewards of the environment and fiscally responsible.

##### Contact:

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##### Construction Start Date:

March 2011

##### Construction End Date:

November 2011

#### ENERGY CONSERVATION MEASURES

##### Lighting and Lighting Controls

- High efficiency lighting
- Occupancy sensors

##### Controls

- Vending machine controls

##### Heating and Cooling

- Programmable thermostats

##### Building Envelope

- Weatherization

##### Other Measures

- Water conservation
- Ozone laundry equipment
- Retro-commissioning

## Clients: State & Municipal, Museums



### STATE AND MUNICIPAL

**Alexandria Sanitation Authority, VA**

**Arlington County, VA**

**Bergen County Utility Authority**

Little Ferry, NJ

**Buchanan County, MO**

**Charlotte County, Port Charlotte, FL**

**City of Boca Raton, FL**

**City of Charlottesville, VA**

**City of Concord, NH**

**City of Ft. Myers, FL**

**City of Hialeah, FL**

**City of Northampton, MA**

**City of Pittsburg, KS**

**City of Riverton, WY**

**City of Tallahassee, FL**

**City of Temple Terrace, FL**

**City of Winter Haven, FL**

**City of Ybor, FL**

**Dept. of Environmental Protection**

Tallahassee, FL

**Dept. of Management Services, Miami, FL**

**Dept. of Military Affairs, St. Augustine, FL**

**Essex and Union Counties, NJ**

**Florida Dept. of Military Affairs**

St. Augustine, FL

**FL. Division of Fruits & Vegetables**

Winter Haven, FL

**Goshen County, Torrington, WY**

**Georgia Environmental Finance Authority**

Atlanta, GA

**Hernando County Government**

Brooksville, FL

**Kansas Insurance Department, Topeka, KS**

**Loudoun County, VA**

**Martin County**

Stuart, FL

**Miami-Dade County, FL**

**Middlesex Water Company, NJ**

**Missouri State Fairgrounds, Sedalia, MO**

**New York Power Authority, NY**

**Plant City Public Works, PA**

**Polk County Government, Bartow, FL**

**Rhode Island Airport, RI**

**Southbridge Water Department**

Southbridge, MA

**St. Lucie County, Fort Pierce, FL**

**Sedgwick County, Wichita, KS**

**Suwannee County, Live Oak, FL**

**Town of Dubois, WY**

**Trenton Water Works, Trenton, NJ**

### CORRECTIONAL FACILITIES

**Arlington County Justice Center, VA**

**El Dorado Correctional Facility, KS**

**Jefferson City Sheriff's Dept., Golden, CO**

**Lansing Correctional Facility, KS**

**Norton Correctional Facility, KS**

**Winfield Correctional Facility, KS**

### MUSEUMS

**John F. Kennedy Presidential Library**

and Museum, Boston, MA

**Museum of Science and Industry, Tampa, FL**

**U.S. Naval Museum, Washington, D.C.**

**USS Intrepid Sea, Air and Space Museum**

New York, NY